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 PRODUCT-DETAILS

## ACS180-04S-12A6-4

LV AC machinery drive module, IEC: Pn 5.5 kW,  
12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V  
(ACS180-04S-12A6-4)




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### General Information

Global Commercial Alias	ACS180-04S-12A6-4
Product ID	3AXD50000814077
ABB Type Designation	ACS180-04S-12A6-4
EAN	6438177689836
Catalog Description	LV AC machinery drive module, IEC: Pn 5.5 kW, 12.6 A, 400 V, UL: Pld 7.5 Hp, 11.0 A, 460 V (ACS180-04S-12A6-4)

Long Description	The ACS180 is a compact and robust adaptable variable speed drive (VSD) for applications such as pumps, fans, compressors, conveyors, winders and mixers. This easy-to-use compact VSD offers excellent performance and quality at superior value with all essential machinery application features embedded. And as a member of ABB's all-compatible drives portfolio, it shares the same architecture and user interfaces for ease of use.
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### Ordering

Customs Tariff Number	85044085
HS Code	850440-- Electrical transformers, static converters (for example, rectifiers) and inductors.- Static converters
Invoice Description	ACS180-04S-12A6-4 PN: 5.5 kW, IN: 12.6 A

Made To Order	Yes
Minimum Order Quantity	1 piece
Order Multiple	1 piece
Quote Only	No
Selling Unit of Measure	piece

## Dimensions

Product Net Weight	2.01 kg 4.431 lb
Product Net Depth / Length	143 mm 5.630 in
Product Net Height	230 mm 9.055 in
Product Net Width	120 mm 4.724 in
Package Level 1 Depth / Length	287 mm 11.299 in
Package Level 1 Height	201 mm 7.913 in
Package Level 1 Width	176 mm 6.929 in
Package Level 1 Units	1 carton

## Certificates and Declarations

Declaration of Conformity - CE	3AXD10001117584
REACH Date	20240905
REACH Declaration	9AKK107992A7060
REACH Information	True - contains substances > 0.1 mass percentage
RoHS Date	20230321
RoHS Information	3AXD10001117584
RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019

## Technical

Number of Phases	3
Degree of Protection	IP20
Enclosure Type NEMA	Open Type
Altitude	2000 m 5 ... 95
Power Factor	0.98
Sound dB (A)	62 dB(A)
Multiple Battery Information	No battery / cell included
Frequency (f)	47 ... 63 Hz
Frame Size	R2
Input Voltage (U <sub>in</sub> )	380 ... 480 V
Mounting Type	Module
Communication Protocol	MODBUS
Number of Hardware Interfaces	Industrial Ethernet 0 Other 1 Parallel 0 PROFINET 0

RS-232 0  
 RS-422 0  
 RS-485 1  
 Serial TTY 0  
 USB 0

Includes	Control unit PC connection
Analog Inputs	2
Analog Outputs	1
Number of Digital In/Outputs	4 / 2
Output Current, Normal Use ( $I_n$ )	12.6 A
Output Current, Light-Overload Use ( $I_{LD}$ )	12.0 A
Output Current, Heavy-Duty Use ( $I_{HD}$ )	9.4 A
Output Power, Normal Use ( $P_n$ )	5.5 kW
Output Power, Light-Overload Use ( $P_{LD}$ )	5.5 kW
Output Power, Heavy-Duty Use ( $P_{HD}$ )	4 kW
	157 W
Apparent Power Output	8.7 kV·A
Efficiency Level	IE2
Standby Loss	12 W
Complete Drive Module Efficiency (61800-9-2)	

Operating Point Frequency / Current	Absolute Loss	Efficiency	Relative Loss
0/25 %	54 W	89.5 %	0.6 %
0/50 %	66 W	93.1 %	0.8 %
0/100 %	105 W	94.4 %	1.2 %
50/25 %	57 W	94.4 %	0.7 %
50/50 %	74 W	96.2 %	0.8 %
50/100 %	125 W	96.7 %	1.4 %
90/50 %	85 W	97.5 %	1.0 %
90/100 %	157 W	97.7 %	1.8 %

Temperature Rating Maximum 40 °C

### Technical UL

Output Current, Heavy-Duty Use (UL)	7.6 A
Output Current, Light-Overload Use (UL)	11.0 A
Output Power, Heavy-Duty Use (UL)	5 Hp
Output Power, Light-Overload Use (UL)	7.5 Hp

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### External Classifications and Standards

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ETIM 9

EC001857 - Frequency converter =< 1 kV

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### Environmental

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SCIP

c4c7e908-d15d-4601-993d-bf271f952213 Finland (FI)

WEEE Category

5. Small Equipment (No External Dimension More Than 50 cm)

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### Additional Information

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Product Name

Frequency converter

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### Categories

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Drives → Low Voltage AC Drives → Machinery Drives → ACS180 - Machinery Drive

